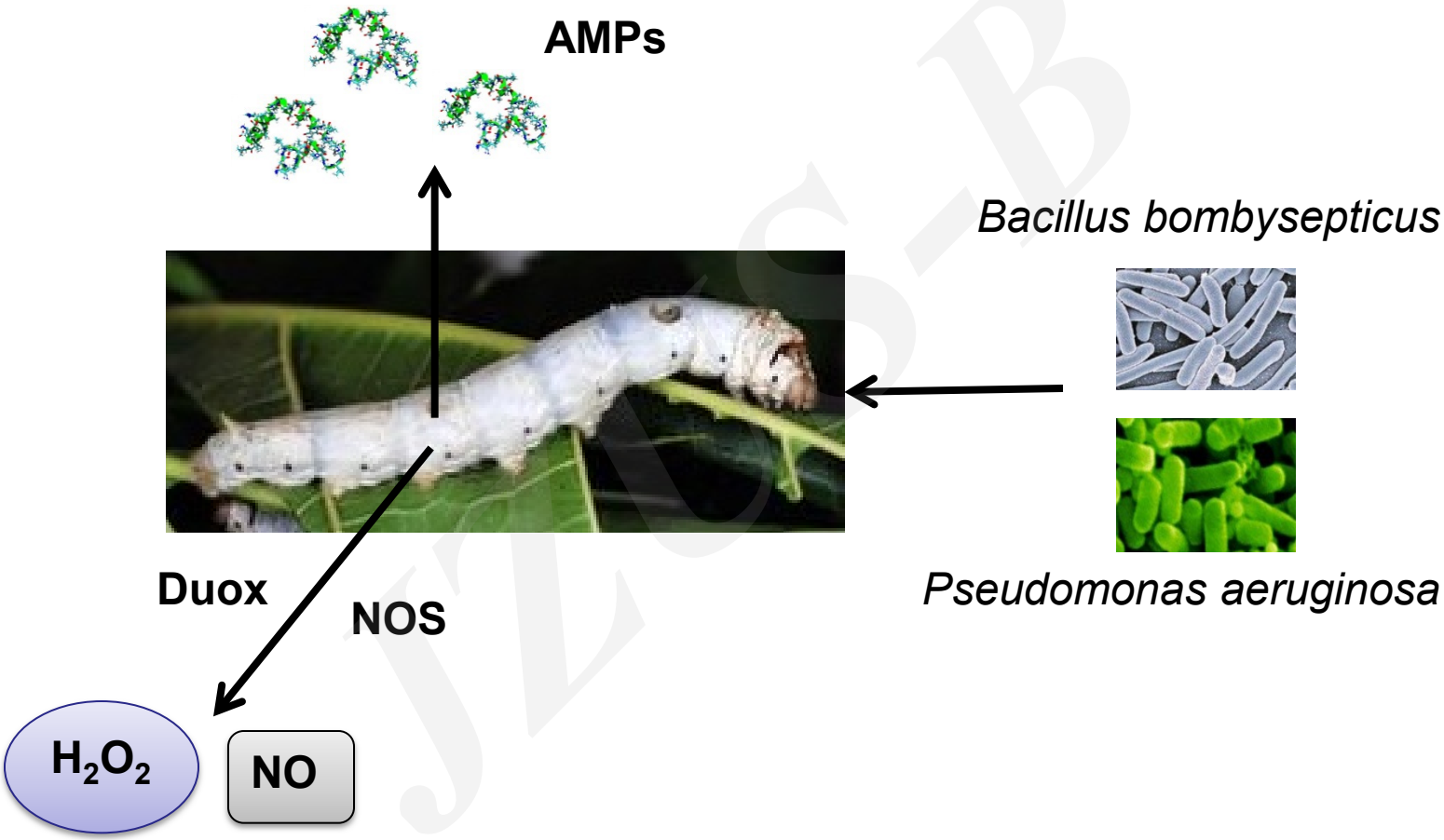
Cite this as: Lei ZHANG, Yan-wen WANG, Zhi-qiang LU, 2015. Midgut immune responses induced by bacterial infection in the silkworm, *Bombyx mori*. *Journal of Zhejiang University-Science B (Biomedicine & Biotechnology)*, **16**(10):875-882. [doi:10.1631/jzus.B1500060]

Midgut immune responses induced by bacterial infection in the silkworm, *Bombyx mori*

JZUSB

Key words: *Bombyx mori*, Midgut, Immune, Hydrogen peroxide, Nitric oxide, Antimicrobial peptide

Research Summary



JZUS-B

Main conclusions

- *B. bombysepticus* infection was highly lethal to larval silkworm.

- Bacterial infection caused significant increase in intestinal H_2O_2 and NO levels at 8 and 16 hpi, respectively.

- *P. aeruginosa* infection induced nitric oxide synthase 2 (*NOS2*) expression at 16 hpi, which contributes to the generation of NO.

HZUS-B